



#8

SEQUENCE LISTING

Sette, Alessandro
Gaeta, Federico
Grey, Howard M.
Sidney, John
Alexander, Jeffery L.
Epimmune Inc.

<120> Alteration of Immune Response Using Pan DR-Binding Peptides

<130> 018623-006240US

<140> US 09/709,774

<141> 2000-11-08

<150> US 08/121,101

<151> 1993-09-14

<150> US 08/305,871

<151> 1994-09-14

<150> US 60/010,510

<151> 1996-01-24

<150> US 08/788,822

<151> 1997-01-23

<160> 22

<170> PatentIn Ver. 2.1

<210> 1

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HA 307-319

<400> 1

Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
1 5 10

<210> 2

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MBP 78-101

<400> 2

Gly Arg Thr Gln Asp Glu Asn Pro Val Trp His Phe Phe Lys Asn Ile
1 5 10 15

Val Thr Pro Arg Thr Pro Pro Pro
20

<210> 3
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:MT 65 kd 3-13

<400> 3
 Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg
 1 5 10

<210> 4
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:717.01
 combinatorial

<400> 4
 Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
 1 5 10

<210> 5
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Tet Tox 830-843

<400> 5
 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
 1 5 10

<210> 6
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Tet Tox
 1272-1284

<400> 6
 Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu
 1 5 10

<210> 7
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:RQIV

<400> 7

Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala
 1 5 10 15

Ala

<210> 8

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Ova 323-336

<400> 8

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu
 1 5 10

<210> 9

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:lambda rep
 12-26

<400> 9

Tyr Leu Glu Asp Ala Arg Arg Leu Lys Ala Ile Tyr Glu Lys Lys Lys
 1 5 10 15

<210> 10

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HEL 46-61

<400> 10

Tyr Asn Thr Asp Gly Ser Thr Asp Tyr Gly Ile Leu Gln Ile Asn Ser
 1 5 10 15

Arg

<210> 11

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HBVnc 50-69

<400> 11
 Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
 1 5 10 15

Met Thr Leu Ala
 20

<210> 12
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CS 378-398

<400> 12
 Asp Ile Phe Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
 1 5 10 15

Asn Val Val Asn Arg
 20

<210> 13
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:MT (Y)17-31

<400> 13
 Tyr Ser Gly Pro Leu Lys Ala Glu Ile Ala Gln Arg Leu Glu Asp Val
 1 5 10 15

<210> 14
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:HBVc 128-140

<400> 14
 Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu
 1 5 10

<210> 15
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PLP 139-151

<400> 15
 His Ser Leu Gly Lys Trp Leu Gly His Pro Asp Lys Phe
 1 5 10

<210> 16
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:R-4 in pan DR
 binding peptide formula

<400> 16
 Trp Thr Leu Lys
 1

<210> 17
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pan DR binding
 peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = Ala or Lys

<220>
 <221> MOD_RES
 <222> (2)
 <223> Xaa = Tyr or Phe

<220>
 <221> MOD_RES
 <222> (3)..(5)
 <223> Xaa = Ala, Ile, Ser, Glu or Val

<220>
 <221> MOD_RES
 <222> (10)..(11)
 <223> Xaa = Ala, Ser or Val

<400> 17
 Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa
 1 5 10

<210> 18
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pan DR binding
 peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = Ala or Lys

<220>
 <221> MOD_RES
 <222> (2)
 <223> Xaa = Tyr or Phe

<220>
 <221> MOD_RES
 <222> (3)..(5)
 <223> Xaa = Ala, Ile, Ser, Glu or Val

<220>
 <221> MOD_RES
 <222> (10)..(12)
 <223> Xaa = Ala, Ser or Val

<400> 18
 Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa
 1 5 10

<210> 19
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pan DR binding
 peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = Ala or Lys

<220>
 <221> MOD_RES
 <222> (2)
 <223> Xaa = Tyr or Phe

<220>
 <221> MOD_RES
 <222> (3)..(5)
 <223> Xaa = Ala, Ile, Ser, Glu or Val

<220>
 <221> MOD_RES
 <222> (10)..(13)
 <223> Xaa = Ala, Ser or Val

<400> 19
 Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa Xaa
 1 5 10

<210> 20
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<400> 21
Xaa Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa
1 5 10

<210> 22
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pan DR binding
 peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> Xaa = Ala or Lys

<220>
 <221> MOD_RES
 <222> (2)
 <223> Xaa = Tyr or Phe

<220>
 <221> MOD_RES
 <222> (3)..(6)
 <223> Xaa = Ala, Ile, Ser, Glu or Val

<220>
 <221> MOD_RES
 <222> (11)..(14)
 <223> Xaa = Ala, Ser or Val

<400> 22
 Xaa Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa Xaa
 1 5 10